DURHAM
16236

November 9, 2018

S P E C I A L P R O V I S I O N

AMENDMENT TO SECTION 502 – REMOVAL OF EXISTING BRIDGE STRUCTURE

Item 502.10_21– Removal and Disposal of Existing Bridge Structure (ACM – Backwall)
Item 502.10_22– Removal and Disposal of Existing Bridge Structure (ACM – Bridge Shoes)
Item 502.10_23 Removal and Disposal of Existing Bridge Structure (ACM – Miscellaneous)

Add to Description:

1.2 The work shall consist of furnishing all labor, materials, services (including, but not limited to, an Asbestos Abatement contractor), equipment, and supplies required for complete removal (which may include scraping, etc.) and proper disposal of asbestos-containing-materials (ACM) identified in the components of the bridge structure. The concrete portion of the bridge structure shall not be treated as ACM as long as the clearance determination shows no asbestos remains. An Environmental Consultant, contracted by the Department, will oversee the asbestos abatement phases of this project.

1.2.1 This work shall also include handling, stockpiling (as necessary), rehandling (as necessary), transportation, associated fees, required permits, and profiling, when required, for the disposal of the ACM.

1.2.2 Miscellaneous ACM will include any other component not included herein (e.g. expansion joints, etc.).

Add the following section:

Materials

2.1 Materials required for removal, temporary storage and disposal shall be in accordance with applicable regulations.

Add to Construction Requirements:

3.4 Existing Bridge Structure Asbestos Abatement.

3.4.1 The Asbestos Abatement contractor shall be a licensed entity per State of New Hampshire Department of Environmental Services (NHDES) Asbestos Management and Control, Chapter Env-A 1800 for the removal and disposal of asbestos.

3.4.1.1 The Department's Environmental Consultant will be on site at all times monitoring perimeter air quality when any activity that may disturb the ACM occurs.

3.4.2 The Design-Build Team and Asbestos Abatement contractor shall comply with the following Federal, State, and local standards, regulations, and codes pertaining to abatement, storage, transportation, and disposal of ACM's. Whenever regulations are in conflict, the more stringent will prevail.

a. U.S. Department of Labor (DOL), Occupational Safety and Health Act of 1970. (Particular attention is drawn to the Asbestos Regulations: CFR Title 29, Part 1910, Sec 1910.1001 and Part 1926, Sec 1926.1101, and the Respirator Regulations; CFR 29, Part 1910, Sec 1910.134 and Hazard Communication, CFR Title 29, Part 1910.1200).
b. U.S. Environmental Protection Agency (EPA), CFR, Title 40, Part 61, Subparts A and M, National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule, Dated Tuesday, November 20, 1990.
c. U.S. Department of Transportation (DOT) regulations, 49 CFR Parts 172 and 173.
d. All State of New Hampshire laws, regulations and standards, including the Department of Environmental Services (DES), Asbestos Management and Control, Chapter Env-A 1800; Waste Management Division Solid Waste Rules – Management of Certain Wastes - Chapter Env-Sw 901 Asbestos. Contacts and Phone numbers:

NHDES Air Resources Division – Asbestos Management Section
(603-271-1373)

NHDES Waste Management Division – Solid Waste Management Bureau
(603-271-6467)

3.4.2.1 All regulations by these and other governing agencies in their most current version are applicable. It is the Design-Build Team's responsibility to know, understand, and abide by all such regulations and common practices.

3.4.2.2 The Design-Build Team shall prepare and submit an Asbestos Abatement Work Plan for review to ensure conformance with project requirements 15 working days prior to the start of the removal of the bridge structure. The Asbestos Abatement Work Plan shall include:

- Proposed means and methods. These means and methods shall be protective of human health and the environment and conform to all applicable state and federal rules and regulations unless a waiver has been obtained.

- A list of equipment that will be used during the abatement and or associated site work disturbing ACM.
- Copies of the abatement contractors' licenses and certifications and a list of qualified personnel that will be on site and their contact information.
- Copies of all associated permits, notifications, or waivers (including any correspondence or approvals) necessary to complete the work.
- The proposed locations within the project where ACM is located, where ACM is anticipated to be impacted and proposed locations for temporary on-site storage, or stockpiles.
- Description of equipment, and personnel decontamination procedures.
- Description of access controls and site security plans (stock pile and storage locations shall be included).
- Description of best management practices (BMPs) and/or Engineering controls, as well as physical and visual controls to be deployed in or around the regulated areas and temporary storage/stockpile locations.
- Steps to inspect and maintain stockpiles until ACM is properly disposed.
- Proposed means and methods of ACM disposal and proposed licensed ACM disposal facility.

3.4.2.2.1 The Department's Environmental Consultant will be on site at all times during ACM removal to observe the Design-Build Team's work procedures for compliance with applicable regulations and the Asbestos Abatement Work Plan. The Department's Environmental Consultant will collect representative air samples in accordance with the NIOSH 7400 method. Should representative air samples exceed 0.05 fibers per cubic centimeter (f/cc) or visible emissions (dust, debris) observed from the ACM removal operations, work shall stop and the work area cleaned up. Work shall not resume until the Design-Build Team submits a revised Asbestos Abatement Work Plan that has been reviewed for conformance by the Department. Note that the limit of 0.05 f/cc is half the OSHA Permissible Exposure Limit (PEL). This level was selected to provide a level of safety before actually reaching or exceeding the PEL.

3.4.2.3 The Design-Build Team shall notify the Engineer at least 2 weeks prior to preforming asbestos work to allow time for the Department to notify the Department's Environmental Consultant to be on-site.

3.4.2.4 Health and safety precautions shall conform to the Design-build Team's Project Health and Safety Plan as required by law.

3.4.3 Following abatement, the surface of the concrete shall be free of all remnants of ACM. Staining on the clean concrete surface shall not be considered ACM.

3.5 Asbestos Pre-Construction Meeting.

3.5.1. The Asbestos Abatement contractor shall meet with the Engineer, the Design-Build Team, and the Department's Environmental Consultant, at the project site, a minimum of 2 weeks prior to beginning abatement work. The Asbestos Abatement contractor shall be represented by an authorized representative and the field supervisor who shall supervise the project on a daily basis. The Design-Build Team shall present evidence that all requirements for initiation of the work have been met. The minimum agenda for the meeting shall be:

1. Review of Pre-Job Submittals.
2. Channels of communication.
3. Construction schedule, including sequence of critical work.
4. Designation of responsible personnel.
5. Procedures for safety, security, quality control, housekeeping, and related matter.
6. Use of premises, facilities, and utilities.

3.5.2 The Design-Build Team is required to provide one copy of the following at the pre-construction meeting:

1. Asbestos Abatement contractor's Entity License.
2. State and Local Notifications, as required.
3. A list of abatement employees to be used on the project. Copy of licenses, training certificates and fit-tests of all workers and supervisors who will work on the project.
4. Documentation of medical records as required by OSHA or a notarized statement by examining medical doctor that such examinations took place and when, for each employee to be used on the project (preferred).
5. Copy of State or local license for waste hauler and waste disposal site.

3.6 Regulatory Submittals. Per NHDES Asbestos Management and Control, Chapter Env-A 1800, the Design-Build Team shall be responsible for securing all necessary permits for Asbestos-related work (including removal, hauling, and materials usage), and any other permits required to perform the work; and fulfilling all reporting and notification requirements.

3.6.1 The Design-Build Team, as applicable, shall notify the following agencies in the appropriate manner of the work:

1. Appropriate notification to NHDES, Air Resources Division (NHDES-ARD), and the Town/City at least 2 weeks prior to the beginning work.
2. Local emergency authorities including, but not limited to, fire, police, and medical services, of the site location(s), regarding schedules of work and hazards anticipated, per NHDES Asbestos Management and Control, Chapter Env-A 1800.

3. The Asbestos Abatement Work Plan shall be prepared by a NHDES licensed Asbestos Project Designer.

3.7 ACM Collection and Storage.

3.7.1 Temporary storage of ACM and/or equipment prior to transporting and stockpiling shall be on a surface that will be impermeable, such as a liner (min. 20 mil poly sheeting), sealed asphalt, or concrete, and shall be approved by the Engineer. The stockpile shall be covered with a liner (min. 20 mil poly sheeting) and in such a way as to as to prevent any leaching of material. The ACM shall be transported to a stockpile site as soon as possible and no material shall be left at the temporary site overnight.

3.7.2 The ACM shall be appropriately secured and covered with liners during stockpiling. The liners shall be secured to prevent damage to the liners and minimize emissions and leaching effect of rain or other adverse weather.

3.7.3 Processing, stockpile and storage areas shall be fenced and posted with asbestos warning signs to eliminate unauthorized entry. The temporary fence shall be a 6-foot (1.8 meter) high chain link fence conforming to Section 607 and include a gated entrance. The fence shall have at least one "NO TRESPASSING" sign per side, and be mounted approximately 4 feet (1.2 meters) from the bottom of the fence. The signs shall be kept clearly visible at all times.

3.8 ACM Disposal.

3.8.1 The ACM shall be considered “asbestos waste” (ORME-9, NA22122) in accordance with the National Emission Standard of Hazardous Air Pollutants (NESHAP) and transported and disposed of as such.

3.8.2 The Design-Build Team shall dispose of the ACM at a licensed, approved disposal facility in accordance with current EPA, NHDES, State, and Federal rules and regulations.

3.8.3 The ACM stockpile(s) shall be appropriately disposed of within 30 days of substantial completion of asbestos abatement work. If the project involves phased work, the ACM stockpile(s) shall be appropriately disposed of within 30 days of substantial completion of asbestos abatement work per phase.

3.8.4 The Design-Build Team shall obtain and pay for all permits, material, fees, and taxes, submit all necessary documents, obtain all permits and certificates and all necessary approvals from the appropriate authorities and provide copies of all permits, approvals, and certificates to the Engineer.

3.8.5 Hauling/transportation of ACM shall be in accordance with current EPA, NHDES, State, and Federal rules and regulations.

3.8.6 The Design-Build Team shall submit Waste Shipment Records, including Weight Slips and Disposal Invoices from the disposal facility, to the Engineer within thirty (30) days of shipment of the asbestos waste.

3.9 If ACM of a different type of ACM as outlined herein or as stated in the Contract Documents is discovered during the work, it shall be provided for in 107.17.